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|----------------------------|-----|--|------------------------------|----|----|------------------|
| S19 | 272 | ("1843037" "2064431" "2331355" "2747575" "2787271" "2952260" "3029817" "3036573" "3143113" "3211147" "3230955" "3343543" "3395201" "3395708" "3411504" "3430630" "3468311" "3554862" "3556932" "3556933" "3559650" "3575174" "3585104" "3592194" "3595235" "3599388" "3612054" "3677886" "3700623" "3736931" "3772076" "3836366" "3885158" "3886941" "3889679" "3899388" "3901236" "3903890" "3954107" "3972855" "4015604" "4029101" "4059114" "4062362" "4069822" "4100324" "4129528" "4144122" "4147586" "4200103" "4222921" "4247362" "4282874" "4303471" "4324246" "4327728" "4340058" "4342314" "4351699" "4397644" "4405326" "4410324" "4432833" "4460642" "4463045" "4476180" "4476323" "4482429" "4482833" "4490147" "4522967" "4524474" "4556146" "4568341" "4573986" "4578070" "4578071" "4589876" "4594130" "4627848" "4631062" "4636209" "4643726" "4650481" "4654161" "4655759" "4657538" "4673403" "4675394" "4676784" "4676786" "4678464" "4681793" "4687478" "4717498" "4723953" "4743245" "4753644" "4758240" "4773905" "4781711" "4787896" "4793898" "4795452" "4804380" "4846824" "4865597" "4879170" "4886513" "4900318" "4936839" "4950264" "4960845" "4963139" "4973325" "4981557" "4988344" "5007906" "5008344" "5009653" "5030229" "5030314" "5048589" "5070168" "5070171").PN. OR ("5073619" "5085736" "5098979" "5104396" "5120812" "5127911" "5135294" "5147343" "5149765" "5151091" "5167654" "5171302" "5188625" "5190563" "5196499" "5197959" "5225047" "5237035" "5242435" "5267992" "5275009" "5281208" "5296434" "5300557" "5300358" "5300666" "5324278") | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/23 12:36 |
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|-----|-----|--|---|----|-----|------------------|
| S20 | 226 | S19 and @ad<="20021218" | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/23 11:26 |
| S21 | 225 | S20 and @pd<="20011218" | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/23 11:28 |
| S22 | 56 | S21 and ((transfer acquisition distribution) near3 (layer member)) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/23 11:31 |
| S23 | 24 | S22 and (rib valley protrusion raised) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/23 11:53 |
| S24 | 10 | S23 and aperture | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/23 11:53 |
| S25 | 123 | S21 and (rib valley channel protrusion raised) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/23 12:29 |
| S26 | 10 | S22 and (depth near5 (rib valley channel protrusion raised)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/23 12:29 |
| S27 | 2 | ("5295987").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/23 12:33 |
| S28 | 3 | ("3731686").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/23 12:46 |

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|-----|-----|---|--|----|-----|------------------|
| S29 | 157 | ((("2020928") or ("2068456") or ("2177490") or ("2257428") or ("2275425") or ("2404758") or ("2679887") or ("2896692") or ("2901951") or ("3081500") or ("3081512") or ("3236718") or ("3351441") or ("3528145") or ("3542634") or ("3681182") or ("3681183") or ("3881987") or ("3949127") or ("3975455") or ("4101625") or ("4116392") or ("4135021") or ("4153664") or ("4223059") or ("4285100") or ("4223063") or ("4276336") or ("4558630") or ("4758297") or ("4834741") or ("4840829") or ("4968313") or ("5143679") or ("5254111") or ("5626571") or ("5628097") or ("5658639") or ("5714107") or ("5804021") or ("5895623") or ("5914084") or ("5916661") or ("5964742") or ("6059764") or ("6264872") or ("6368444") or ("6443931")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/23 12:53 |
| S30 | 0 | ("!2and((depthheightthickness)near3 (channelribprotrusionpeakvalley))").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/23 12:54 |
| S31 | 4 | S29 and ((depth height thickness) near3 (rib channel protrusion peak valley)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/23 13:38 |
| S32 | 28 | "335252" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/23 13:38 |
| S33 | 2 | ("6165306").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/23 16:06 |
| S34 | 3 | ("4100324").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/23 17:22 |